

MEASURING INSTRUMENT AND METHOD FOR DETECTING A FORCE

Abstract

The present invention relates to a force measuring instrument, having a carrier plate (3), at least one magnet (5), and at least one magnetically sensitive element (6). A tongue element (4) protrudes at least partly from the carrier plate (3) and is joined to a plate element (2). Between the tongue element (4) and the carrier plate (3), an air gap (7) is formed, in which the magnetically sensitive element (6) is positioned. The force to be measured, delivered via the plate element (2), leads to a relative motion between the end, toward the air gap, of the tongue element (4) and the carrier plate (3). This causes a change in the magnetic field geometry in the air gap (7). The present invention also relates to a method for detecting a force.

(Fig. 1)